

**NAME:Purity Kamau**

### **QUESTION 1**

#### **EXPLAIN WHAT IS SQL HOW IS IT USEFUL**

SQL is a standardized programming language used to manage relational databases and perform various operations on the data in them.

### **QUESTION 2**

#### **Subcounty\_population\_density**

- **Create database for subcounty\_population\_density**

```
create database subcounty_population_density;  
use subcounty_population_density;
```

- **Write a statement to create table subcounty\_population\_density**

```
CREATE TABLE subcounty_population_density (  
    id INT NOT NULL AUTO_INCREMENT PRIMARY  
    KEY, county_name VARCHAR(250) NOT NULL,  
    subcounty_name VARCHAR(500) NOT NULL,  
    total INT,  
    male INT,  
    female INT,  
    square_kms INT,  
    pop_density INT  
);
```

- **Write statement to insert values in table subcounty\_population\_density**

```
INSERT INTO subcounty_population_density (  
    county_name, subcounty_name, total, male, female, square_kms, pop_density  
) VALUES  
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- Write a SQL statement to display specific columns; the county\_name, subcounty\_name, total, square\_kms and population\_density for all records

```
select county_name,subcounty_name,total,square_kms,pop_density from
subcounty_population_density;
```

```
SELECT * FROM subcounty_population_density;
```

- Write an SQL statement to display the county\_name, subcounty\_name, total, male, female sorted by female subcounty. Subcounty with highest female population on top

```
select county_name,subcounty_name,total,male,female
from subcounty_population_density order by female desc;
```

- **Write an SQL statement query to calculate total population of all subcounties(USE SQL aggregate functions)**

```
select sum(total)
from subcounty_population_density;
```

- **Write an SQL query that retrieves the county\_name, the average population density of the subcounties. Order by the retrieved results by county\_name first and then population density descending(Group by aggregate function)**

```
select county_name,pop_density from
subcounty_population_density order by
county_name,pop_density desc;
```

- **Write an SQL query to retrieve rows where the subcounty is in Nyandarua county. Notice some of these subcounties have typing mistakes. Update the names of the subcounties without typing mistakes**

```
SELECT county_name,subcounty_name from
subcounty_population_density where
county_name = "Nyandarua";
```

```
UPDATE subcounty_population_density set
subcounty_name = "NYANDARUA SOUTH"
WHERE subcounty_name =
"NYANDARUASOUTH";
```

```
UPDATE subcounty_population_density set
subcounty_name = "NYANDARUA WEST"
WHERE subcounty_name = "NYANDARUAWEST";
```

```
UPDATE subcounty_population_density set
subcounty_name = "NYANDARUA NORTH" WHERE
subcounty_name = "NYANDARUANORTH";
```

```
SELECT county_name,subcounty_name from
```

```
subcounty_population_density where  
county_name = "Nyandarua";
```